

**FIG. 1A**SYNCHRONUS  
SIGNAL:  $V_{sync}$ 1 FRAME  
**FIG. 1B**LAMP LUMINOSITY WAVEFORM:  
DUTY 100% (LOW BRIGHTNESS)BRIGHTNESS WAVEFORM  
PULSE AMPLITUDE 100%  
**FIG. 1C**LAMP LUMINOSITY WAVEFORM:  
DUTY 75% (HIGH BRIGHTNESS)**FIG. 1D**LAMP LUMINOSITY WAVEFORM:  
DUTY 50% (MIDDLE BRIGHTNESS)**FIG. 1E**LAMP LUMINOSITY WAVEFORM:  
DUTY 25% (LOW BRIGHTNESS)

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FIG. 2

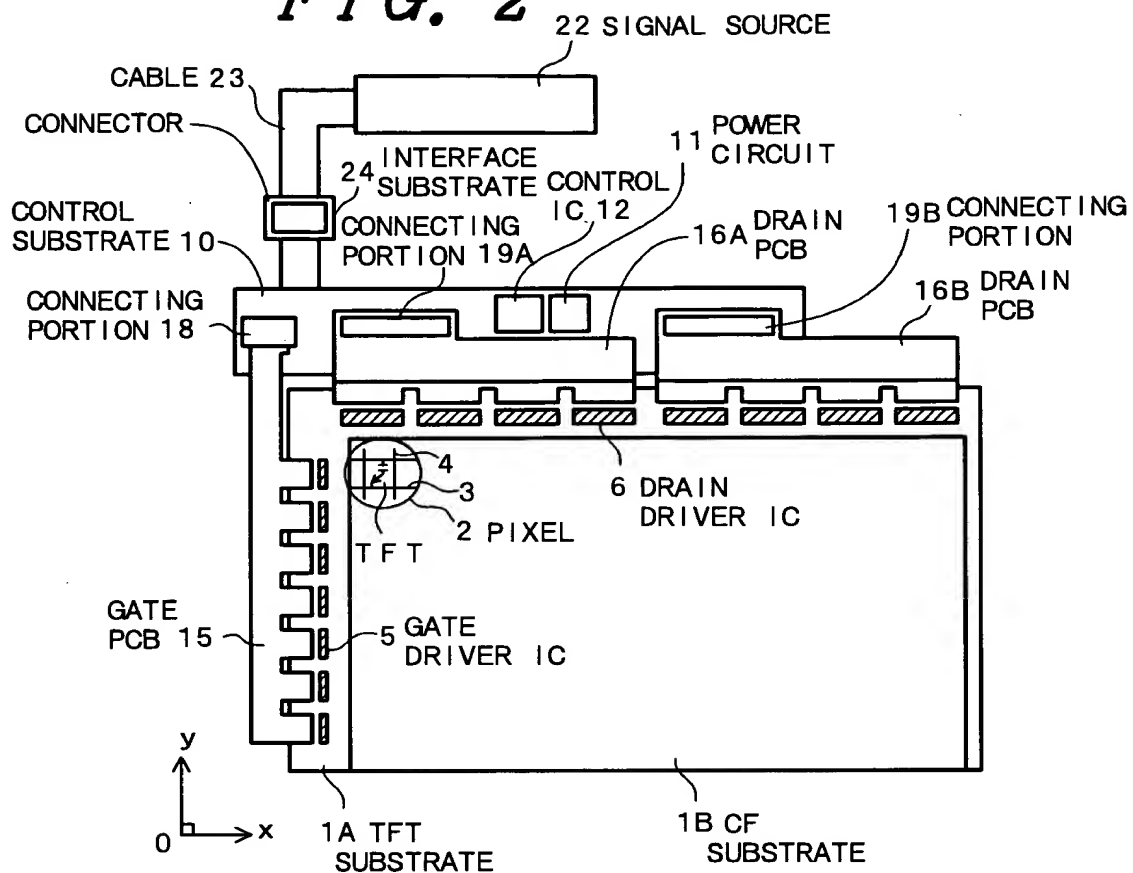
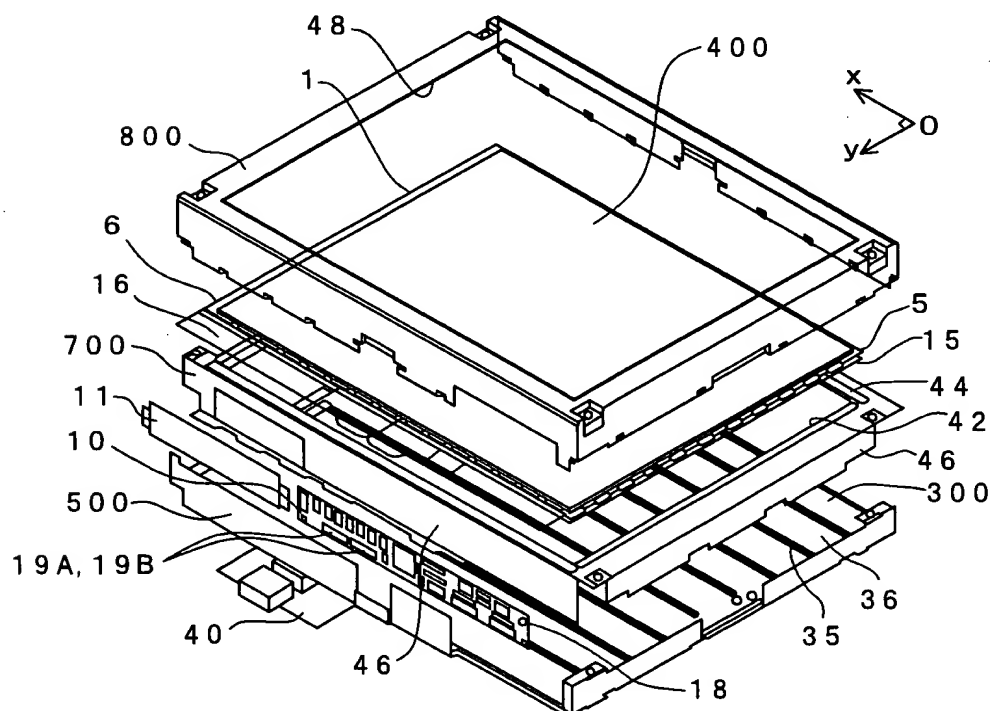
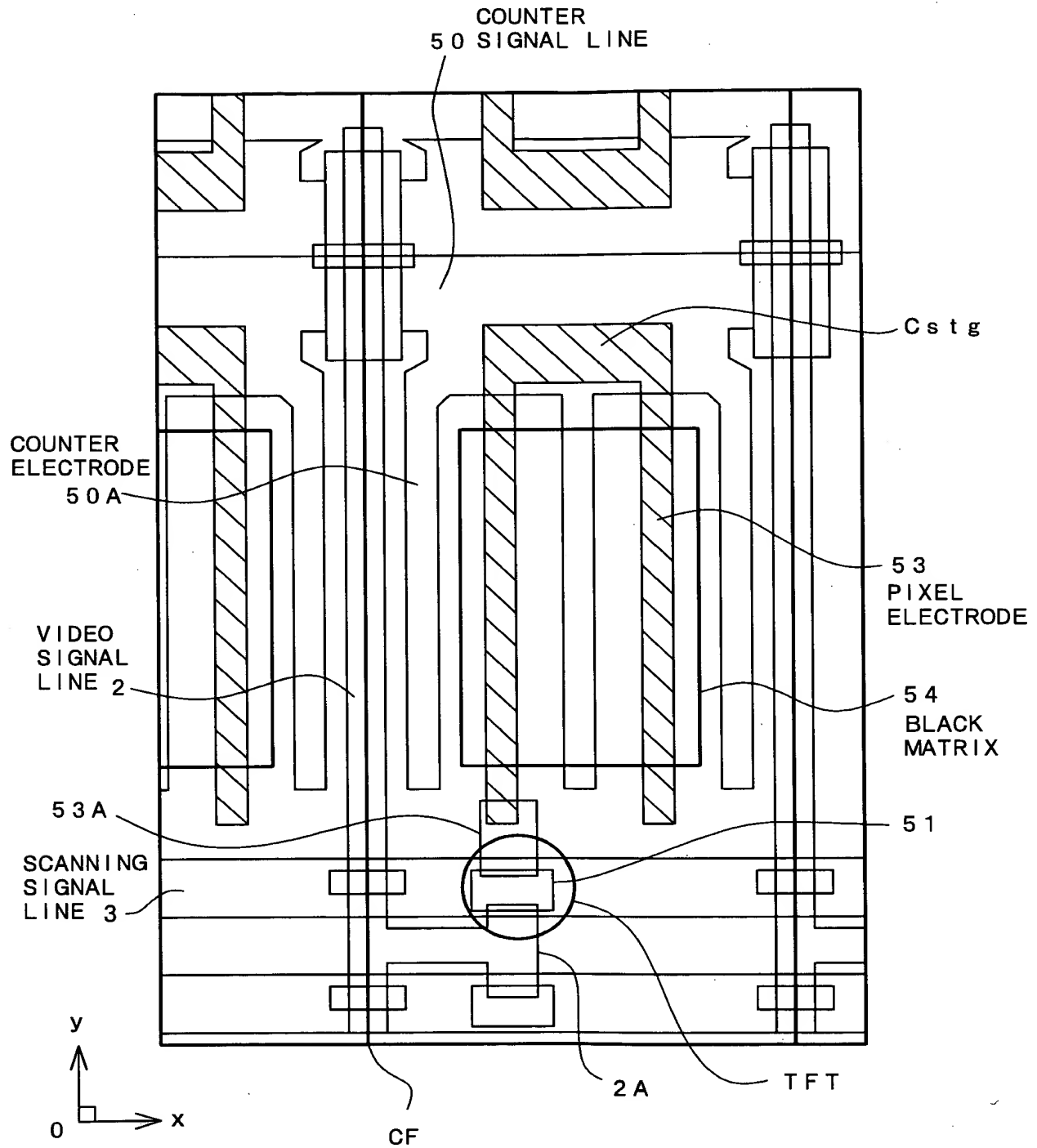


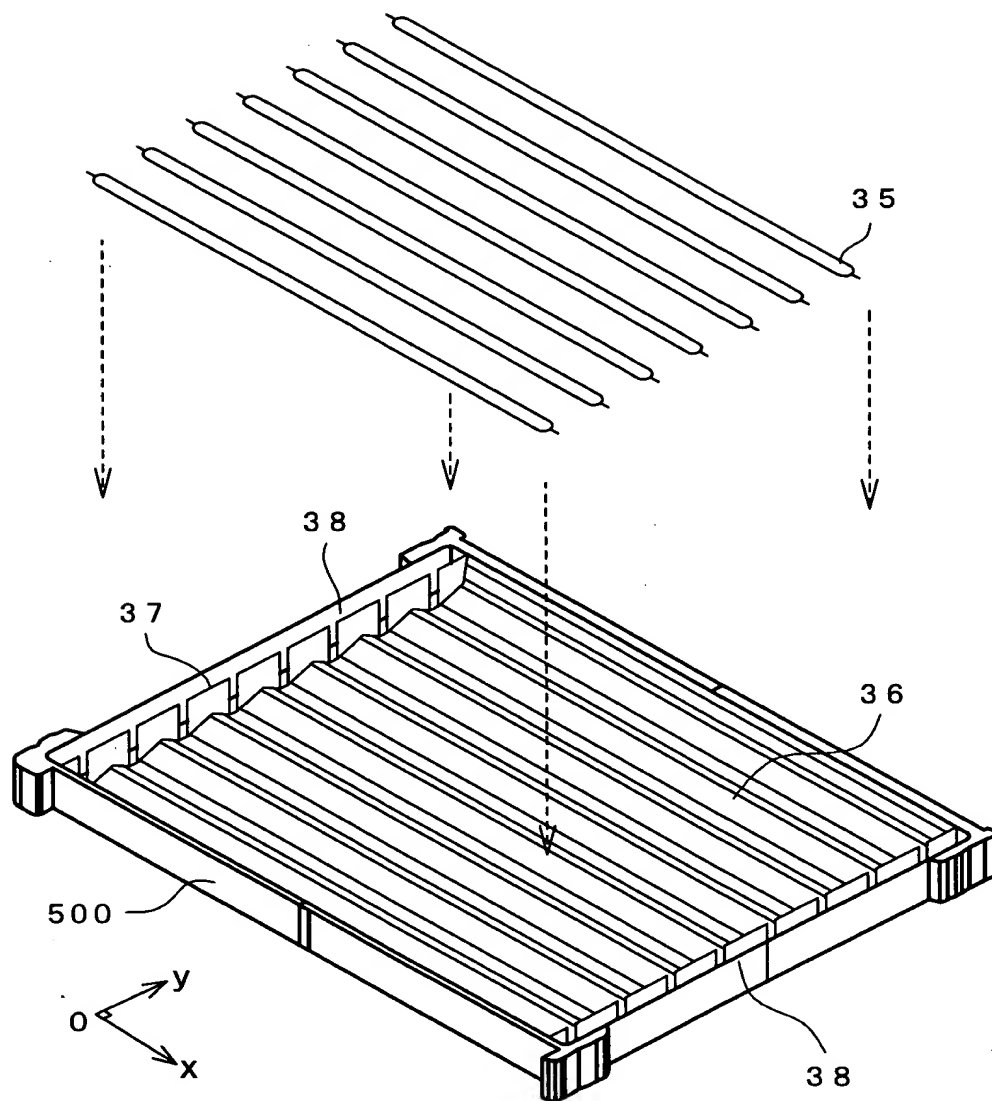
FIG. 3



**FIG. 4**

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FIG. 5



09987595-11501

FIG. 6

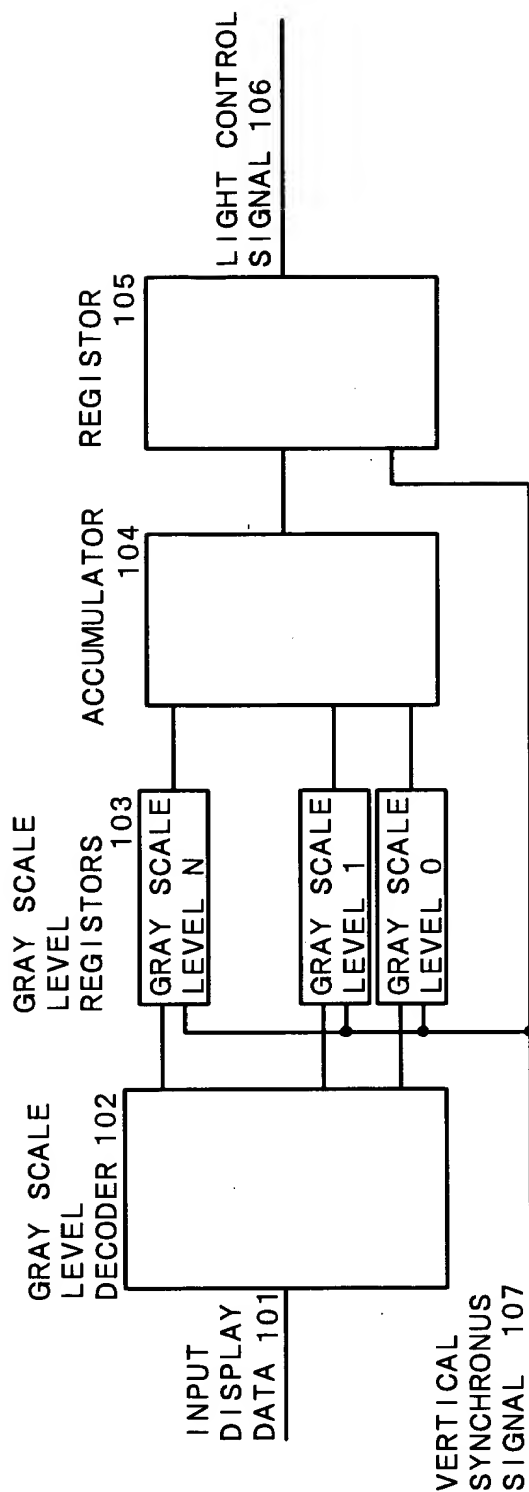


FIG. 7

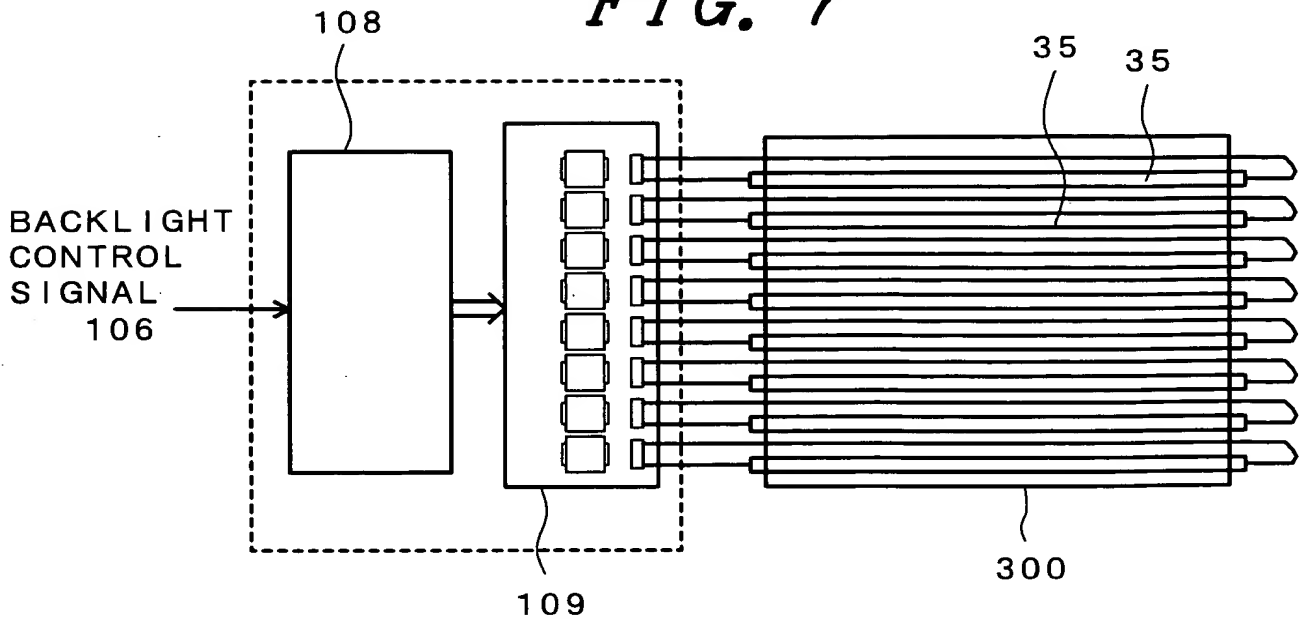


FIG. 8A

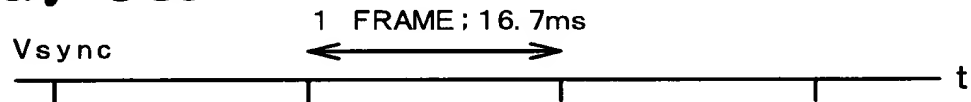


FIG. 8B

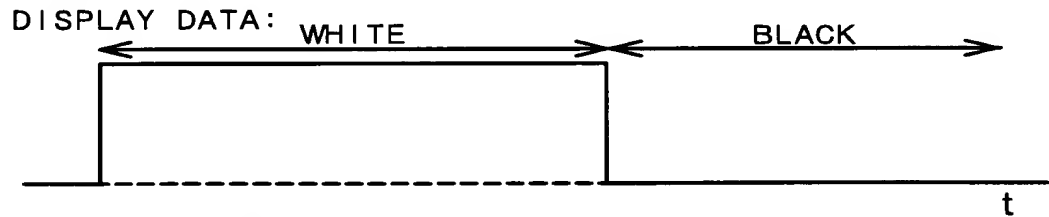


FIG. 8C

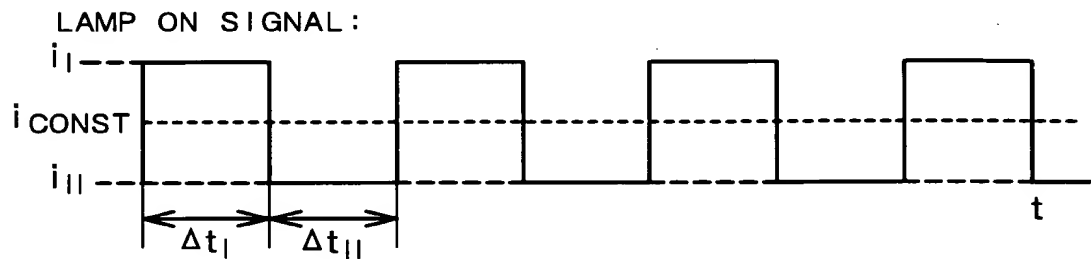
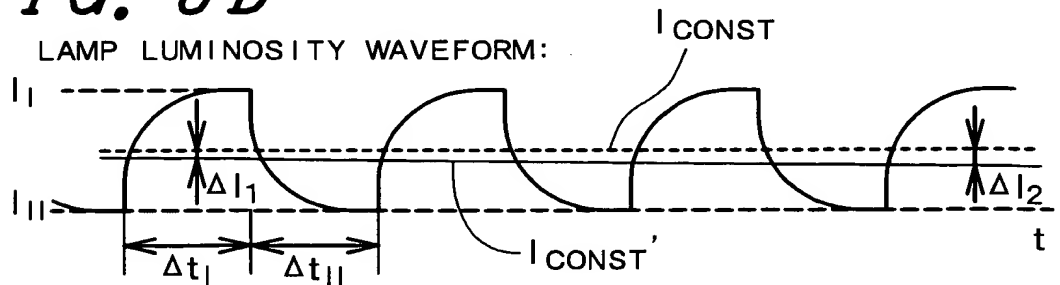
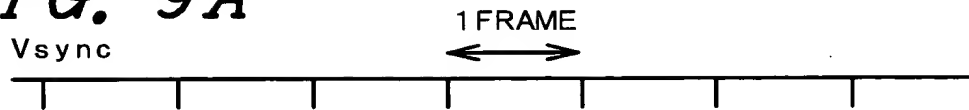
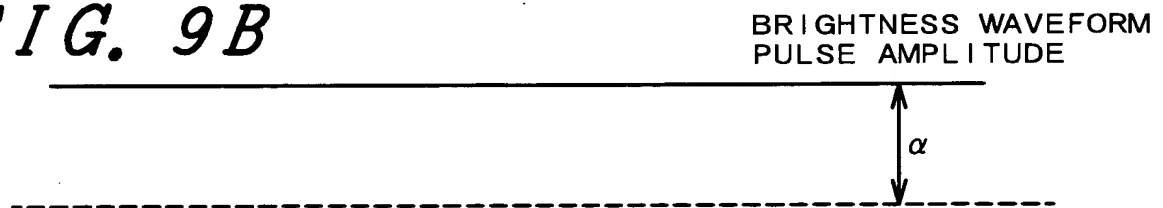
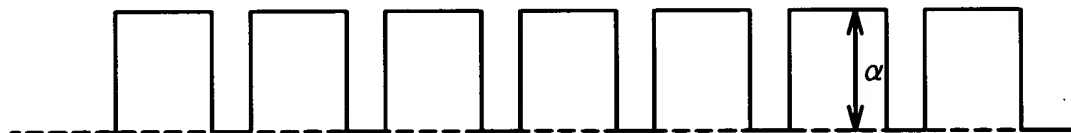
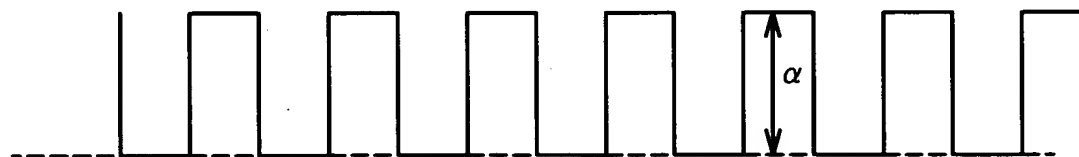
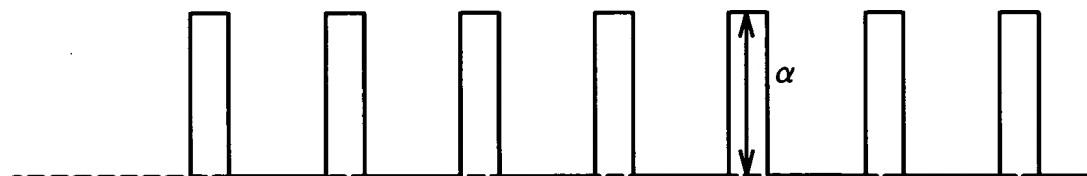


FIG. 8D

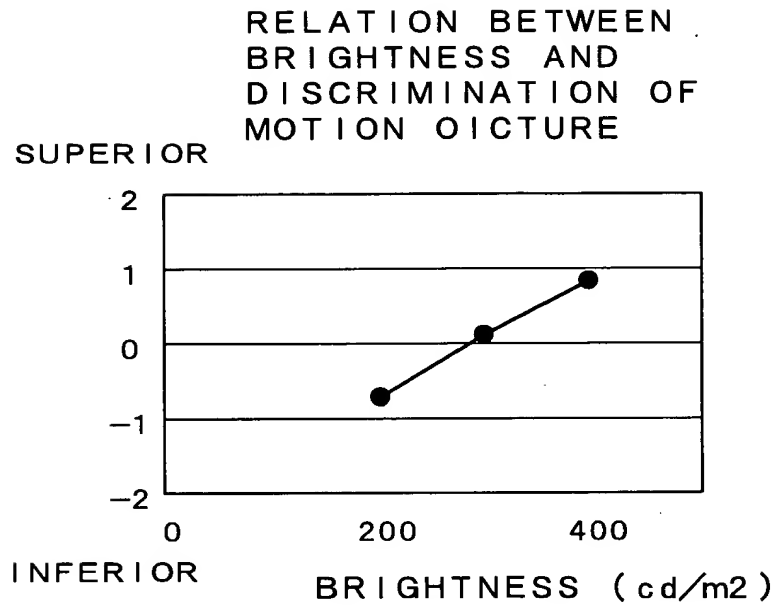


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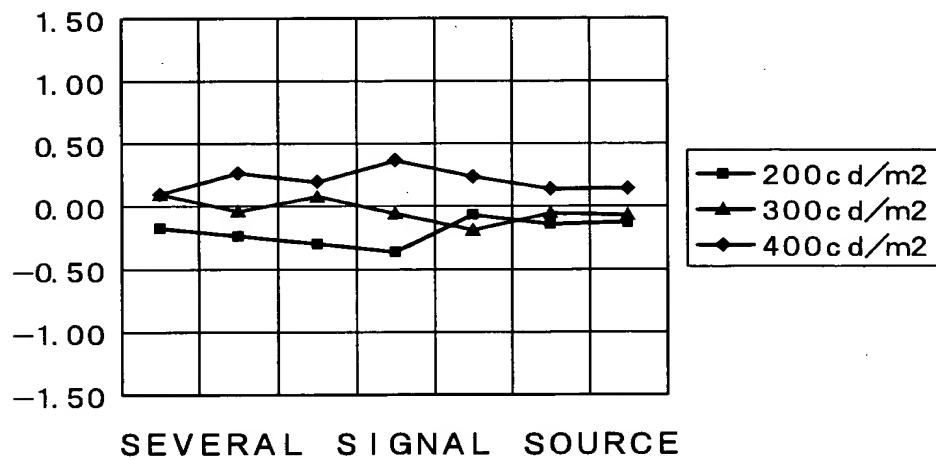
**FIG. 9A****FIG. 9B****FIG. 9C****FIG. 9D****FIG. 9E**

09987595-111501

*FIG. 10*

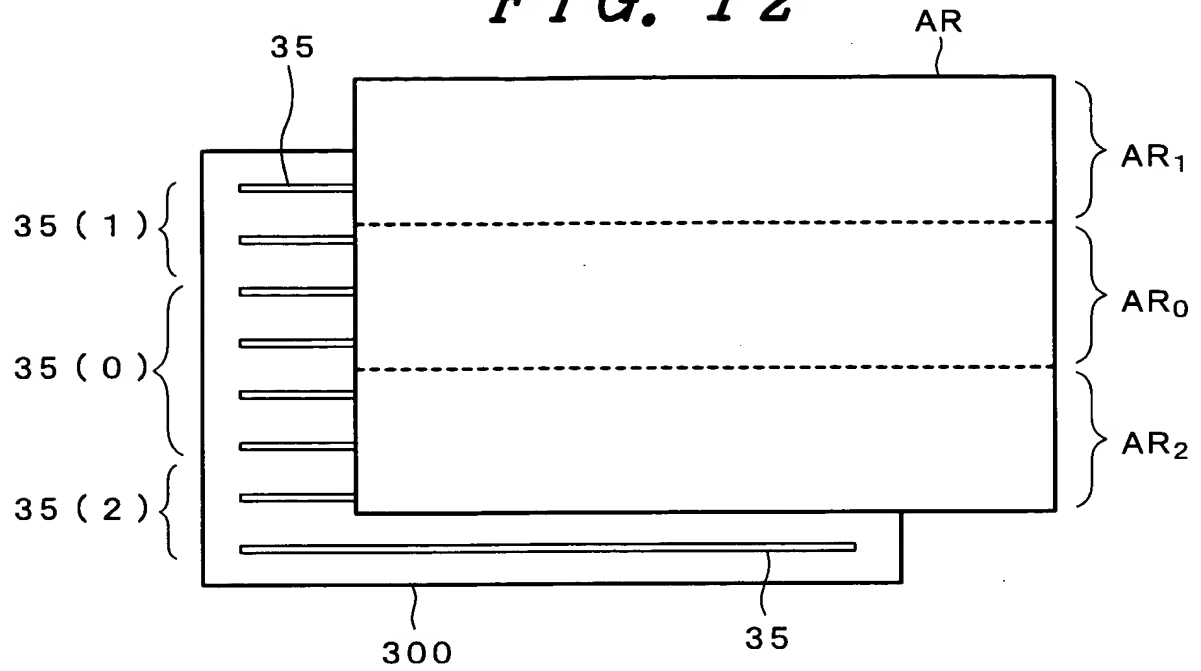
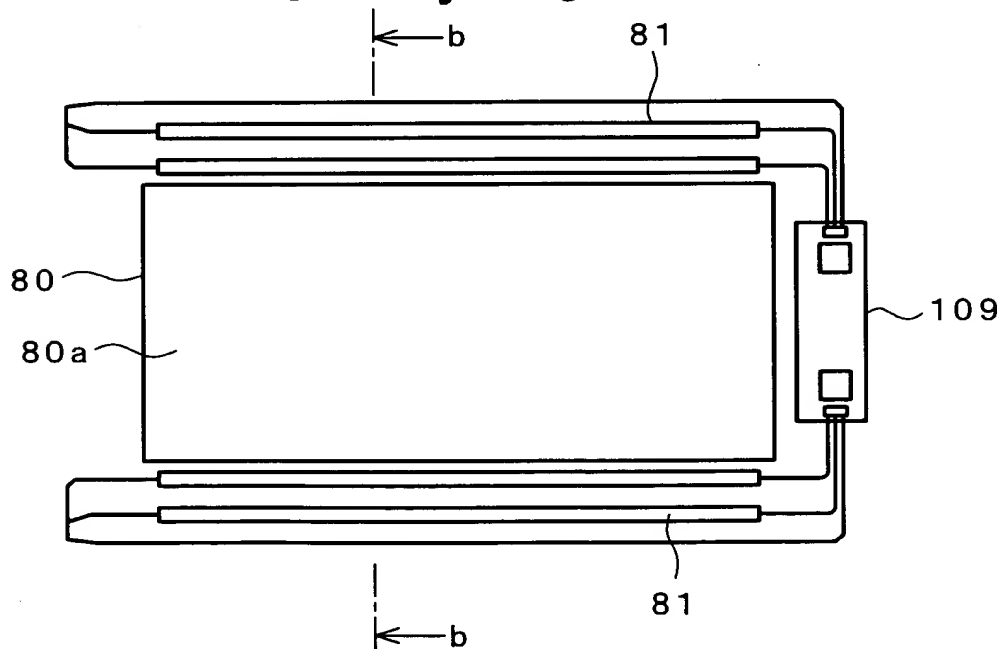
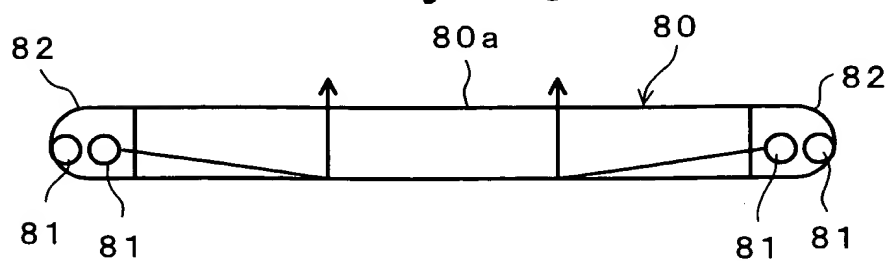


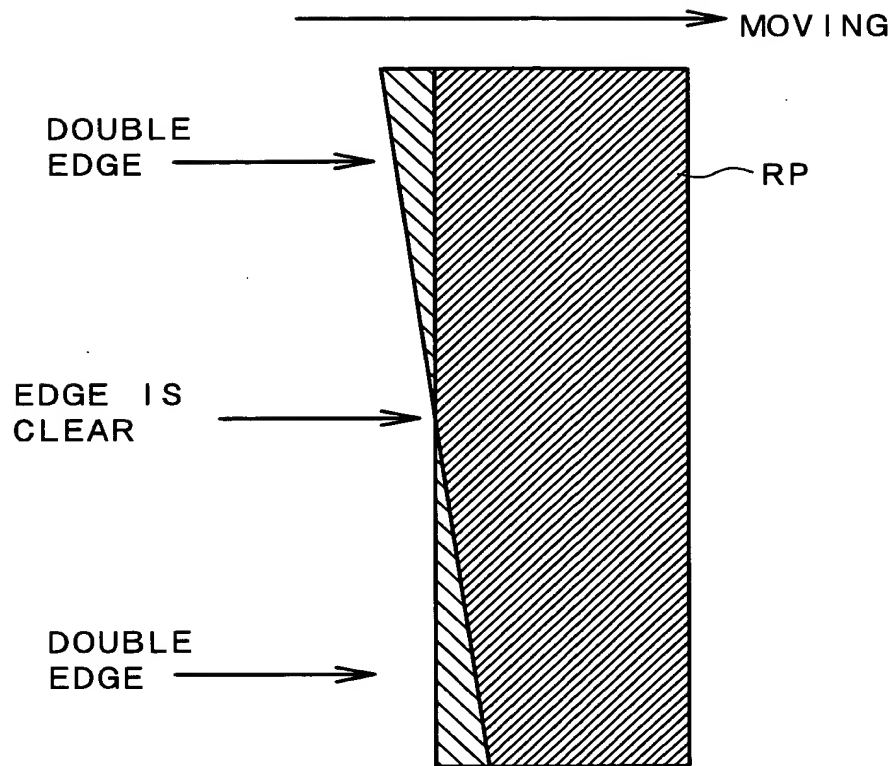
*FIG. 11*



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*FIG. 12**FIG. 13A**FIG. 13B*

*FIG. 14*

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**FIG. 15A** **FIG. 15B**

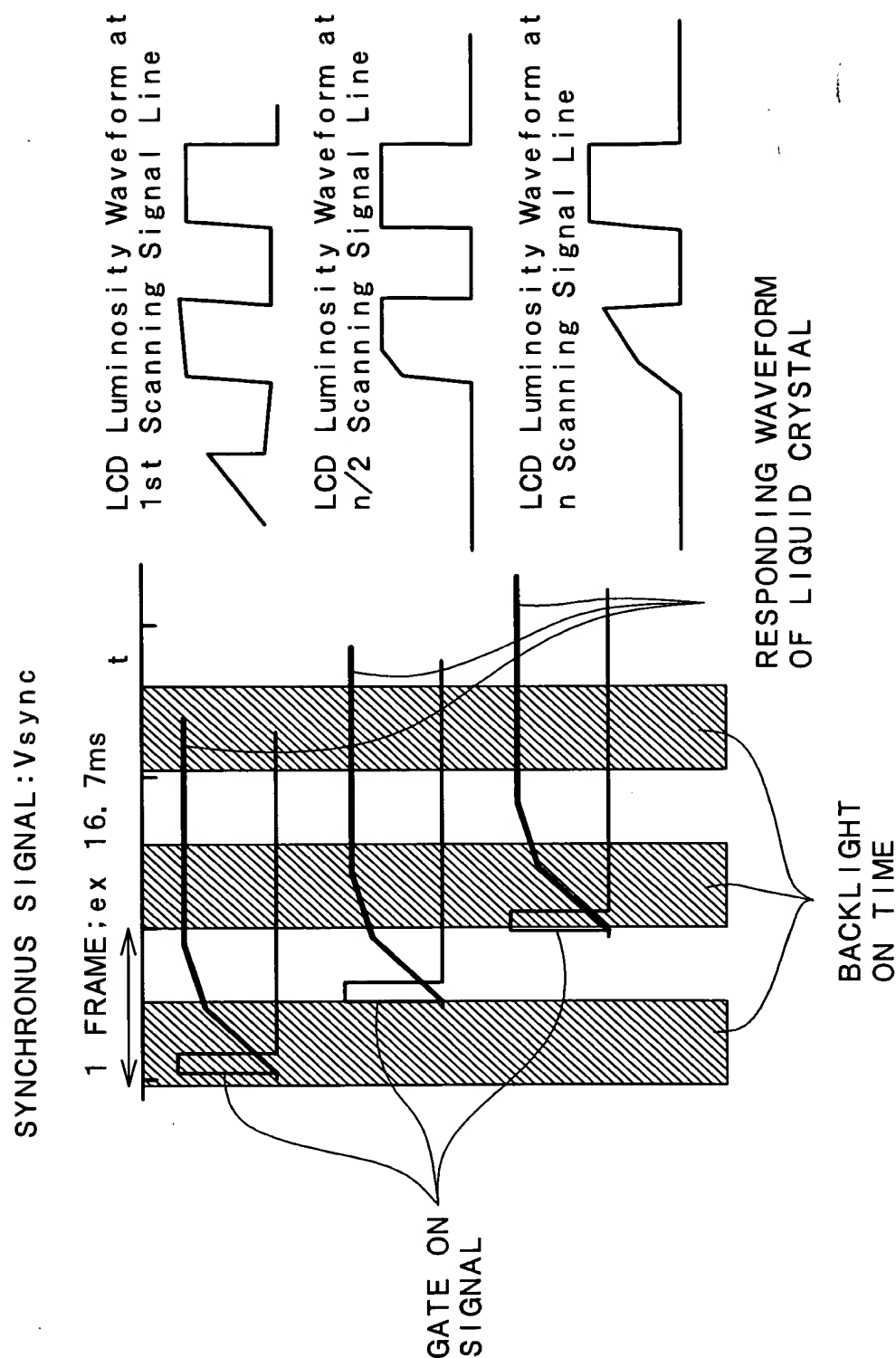
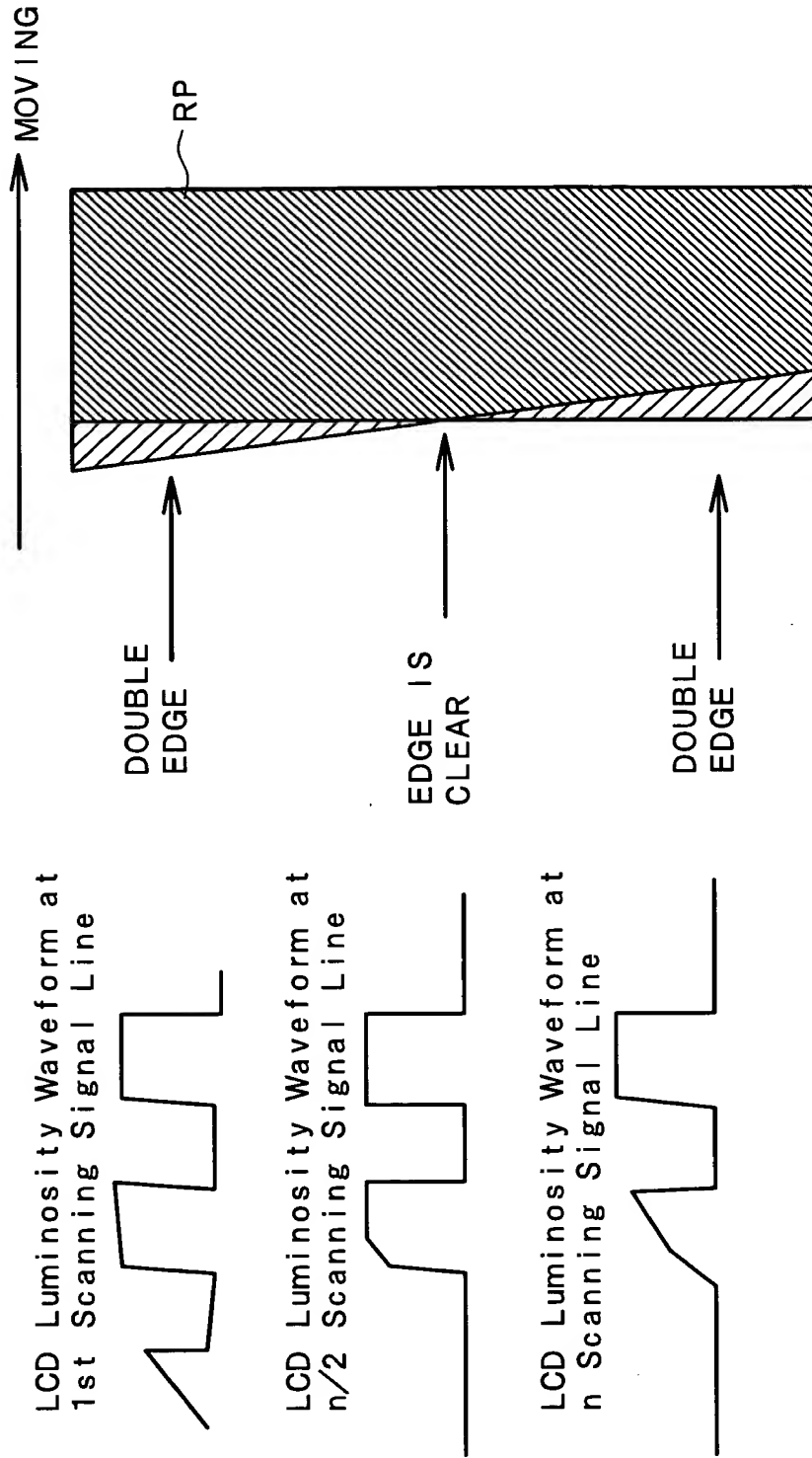
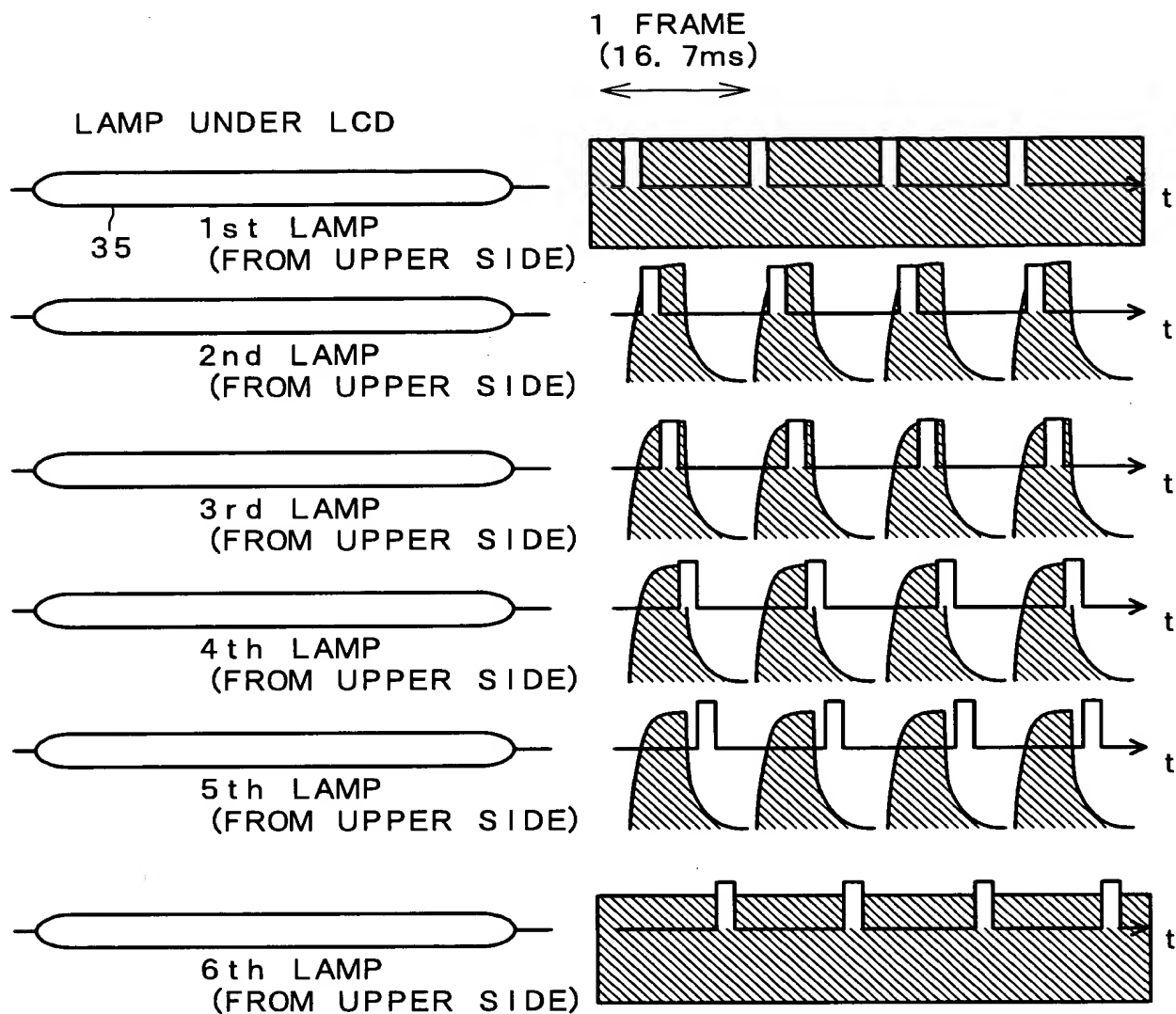
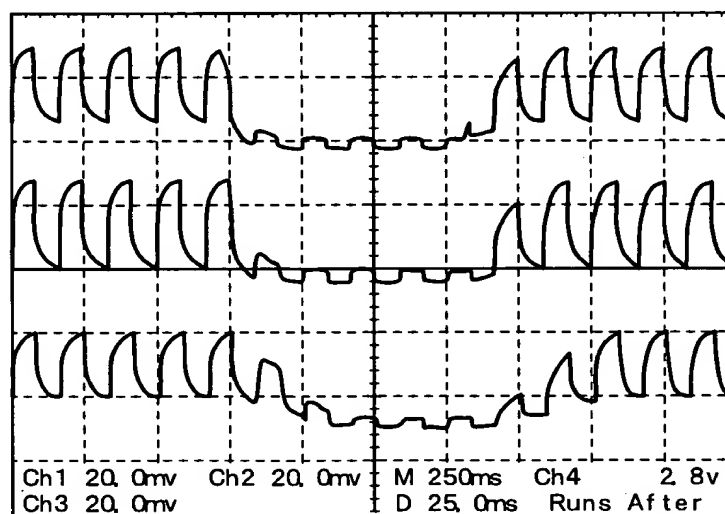
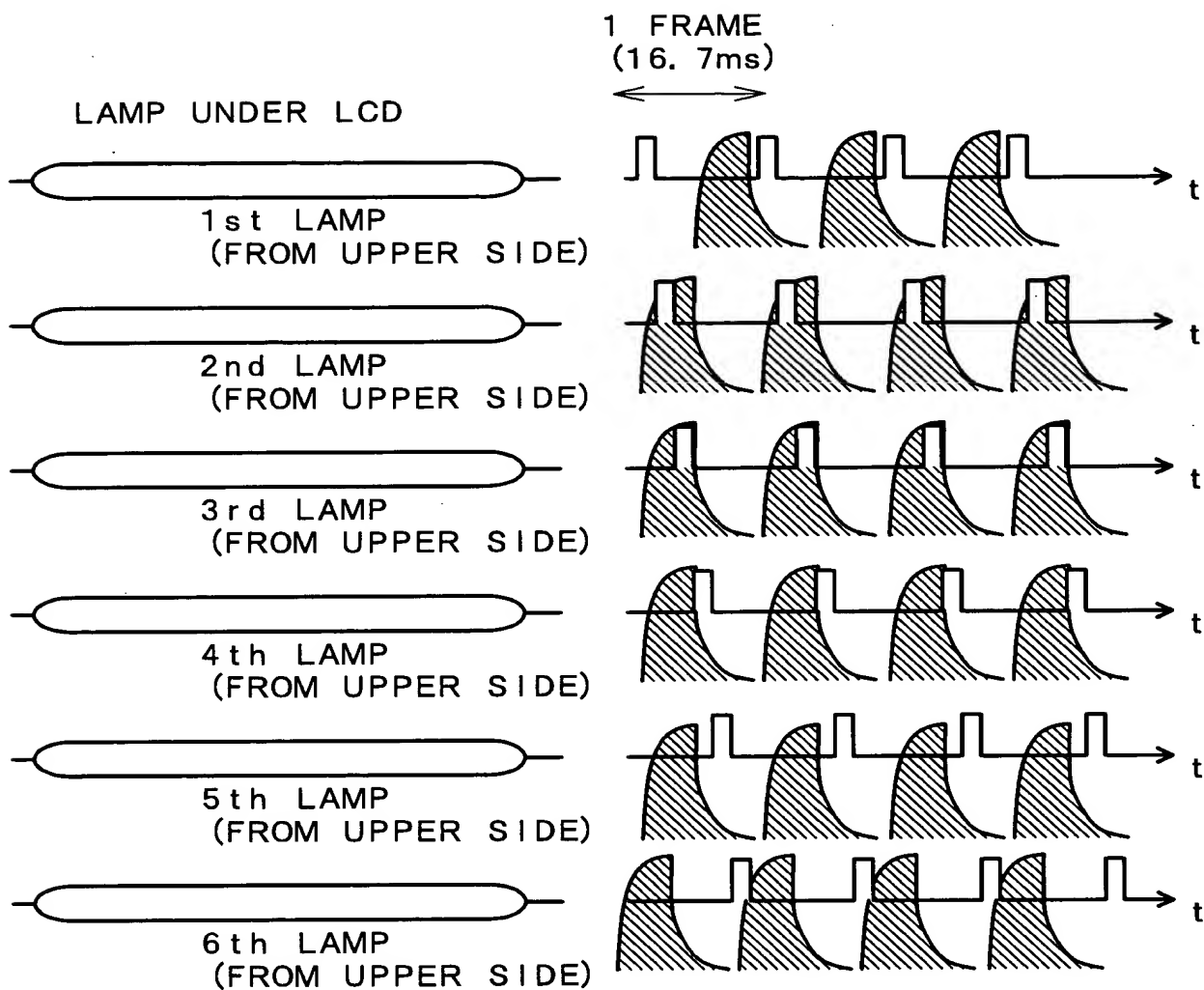
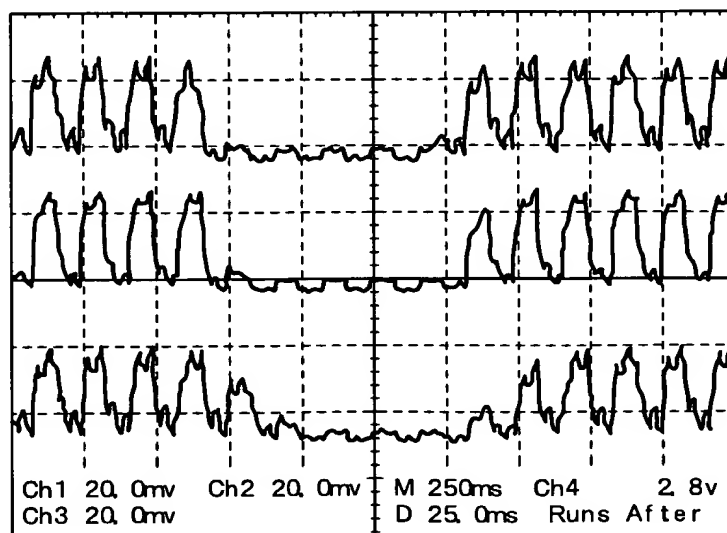


FIG. 16



**FIG. 17A****FIG. 17B****FIG. 18**

**FIG. 19****FIG. 20**

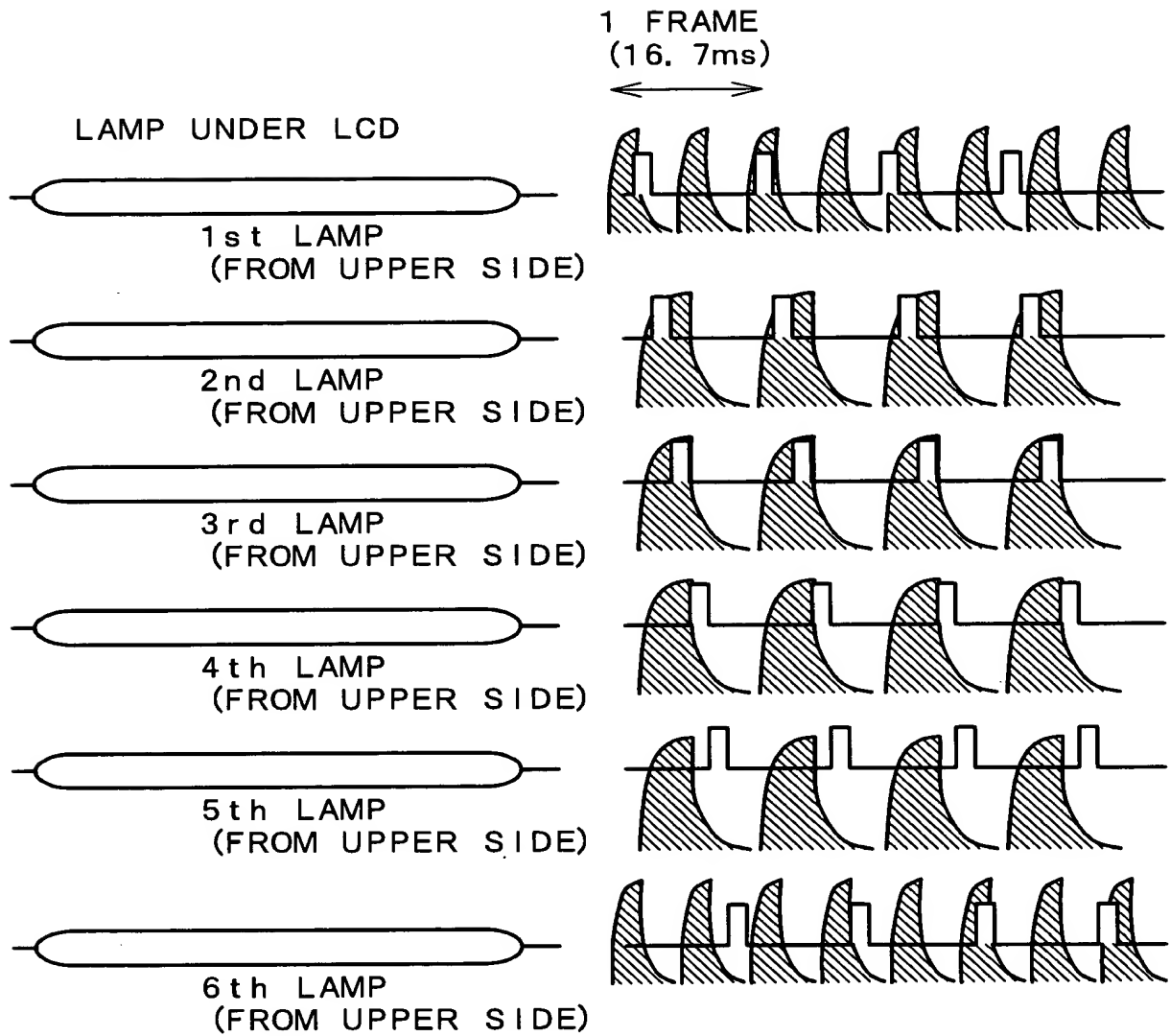
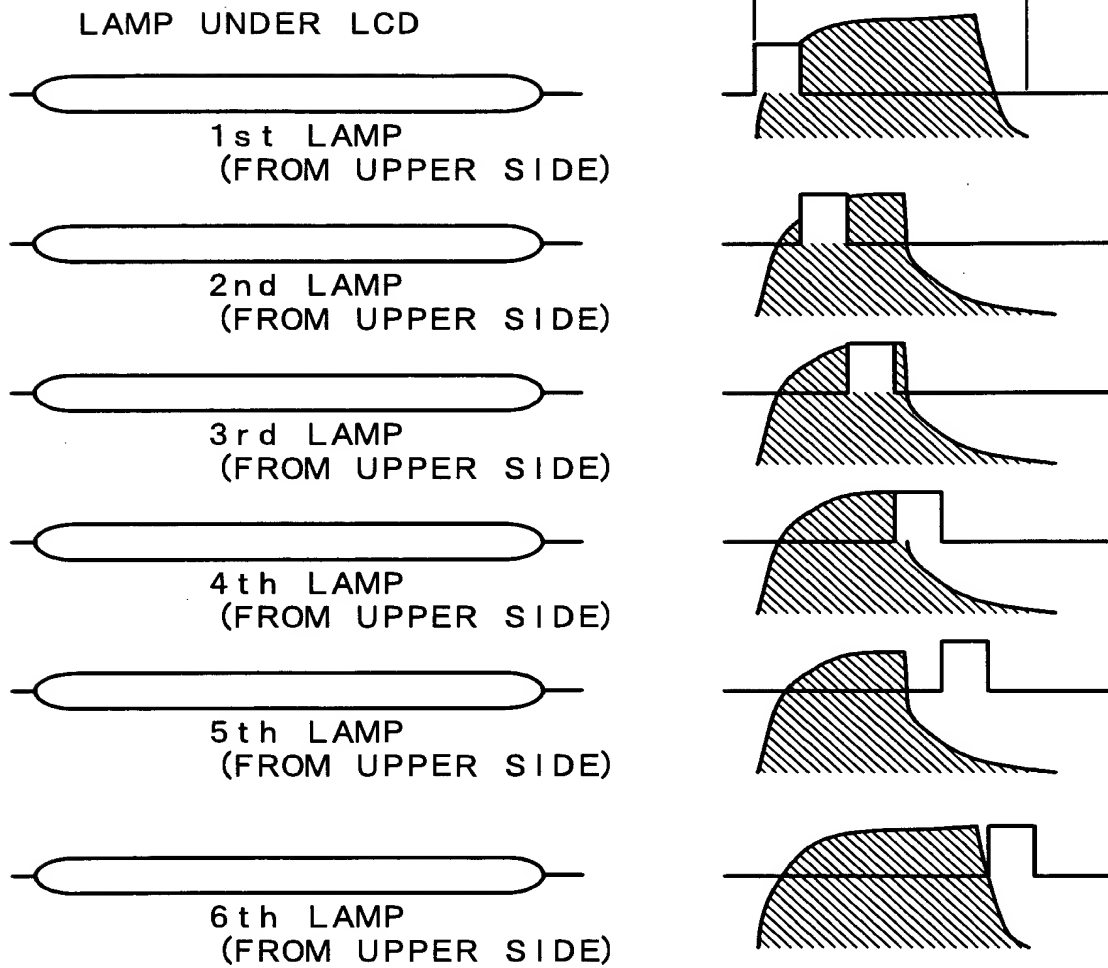
**FIG. 21**

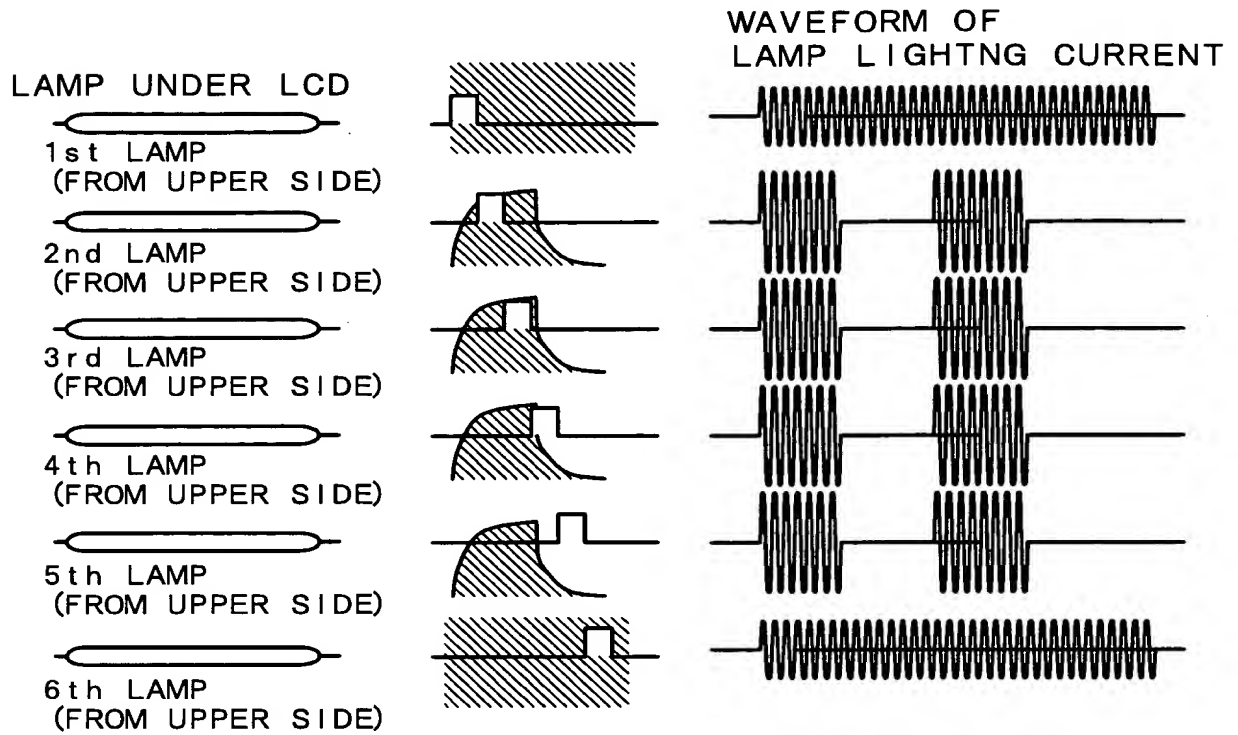
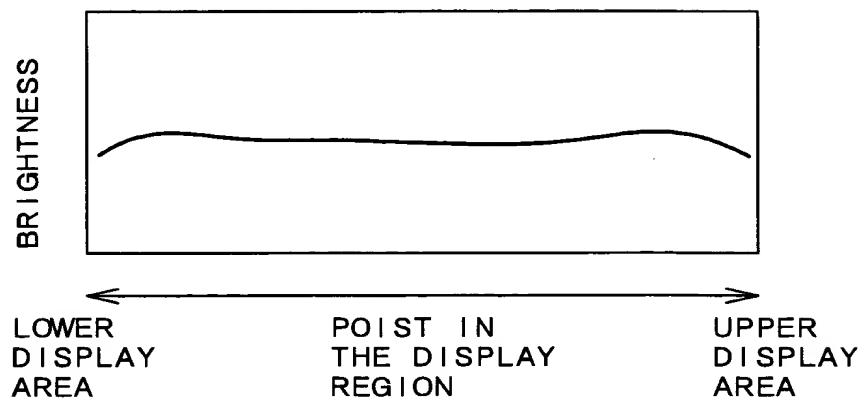
FIG. 22

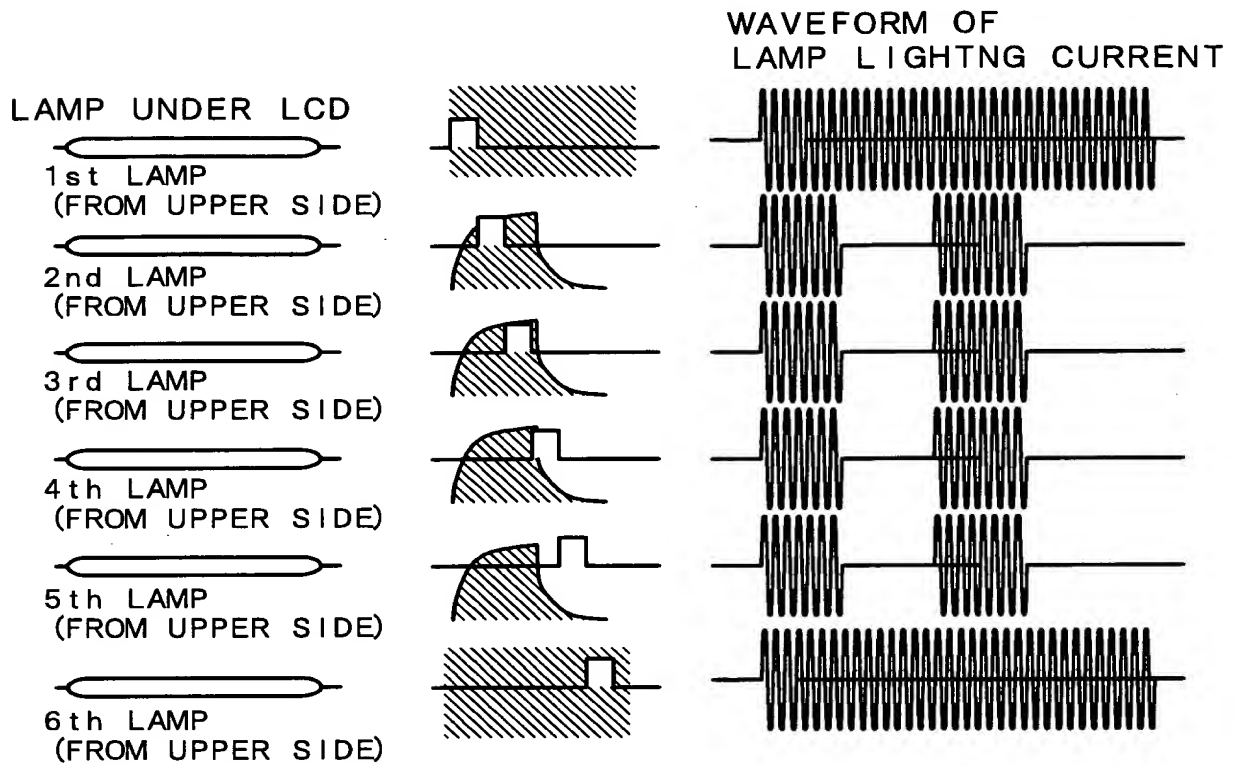
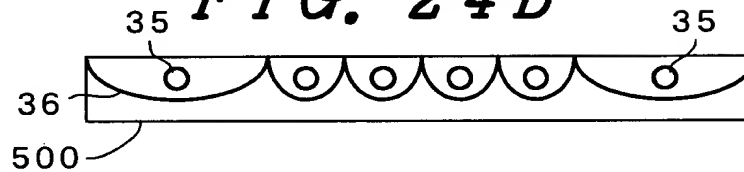
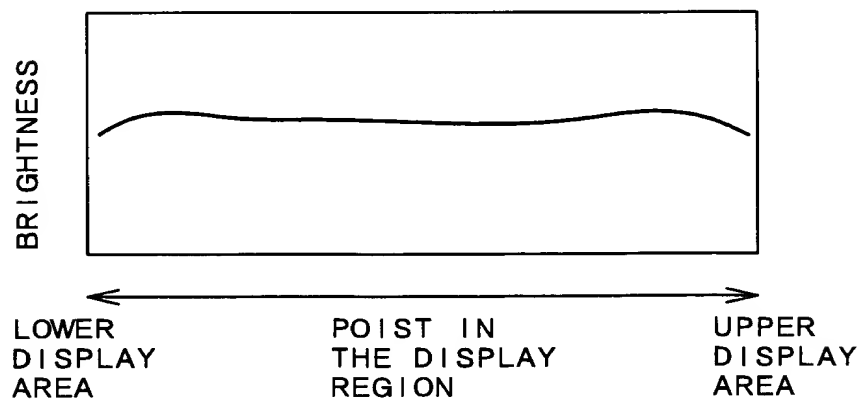
1 FRAME : 16. 7ms



09987595-11501



**FIG. 23A****FIG. 23B**

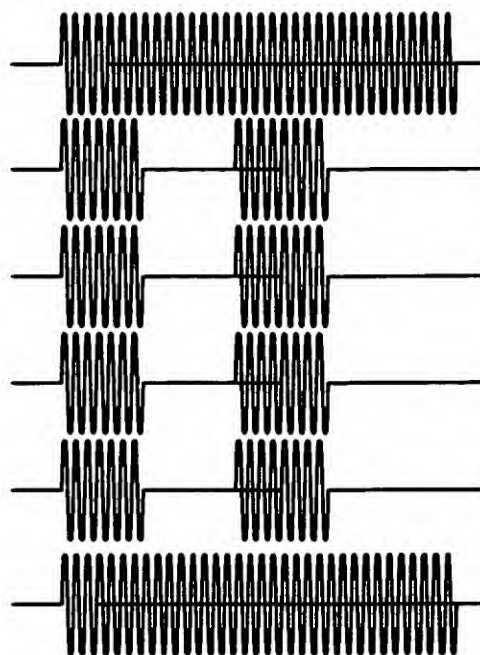
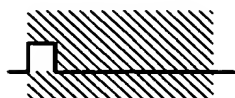
**FIG. 24A****FIG. 24B****FIG. 24C**

**FIG. 25A**

HIGH BRIGHTNESS

WAVEFORM OF  
LAMP LIGHTING CURRENT

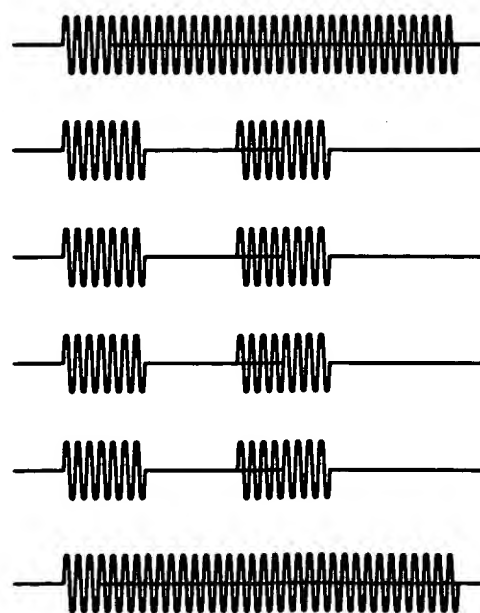
LAMP UNDER LCD

1st LAMP  
(FROM UPPER SIDE)2nd LAMP  
(FROM UPPER SIDE)3rd LAMP  
(FROM UPPER SIDE)4th LAMP  
(FROM UPPER SIDE)5th LAMP  
(FROM UPPER SIDE)6th LAMP  
(FROM UPPER SIDE)**FIG. 25B**

LOW BRIGHTNESS

WAVEFORM OF  
LAMP LIGHTING CURRENT

LAMP UNDER LCD

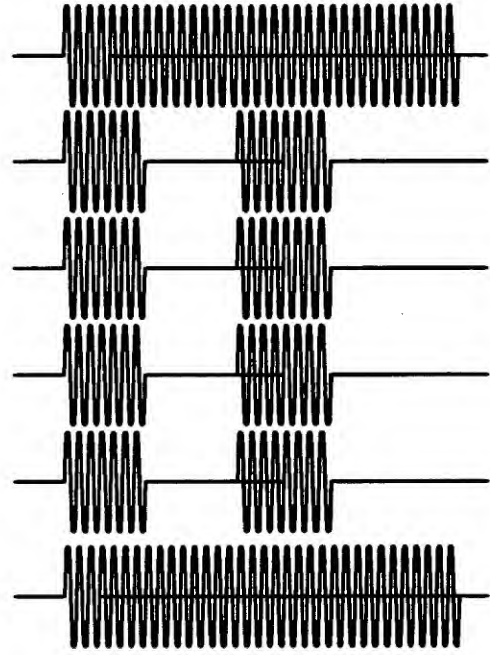
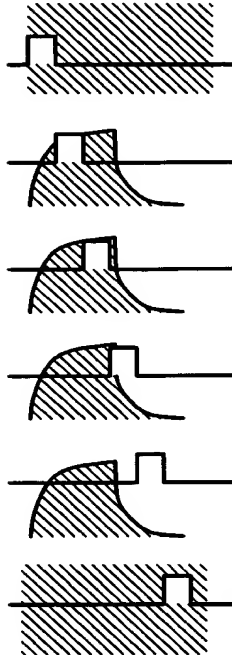
1st LAMP  
(FROM UPPER SIDE)2nd LAMP  
(FROM UPPER SIDE)3rd LAMP  
(FROM UPPER SIDE)4th LAMP  
(FROM UPPER SIDE)5th LAMP  
(FROM UPPER SIDE)6th LAMP  
(FROM UPPER SIDE)

**FIG. 26A**

HIGH BRIGHTNESS

WAVEFORM OF  
LAMP LIGHTING CURRENT

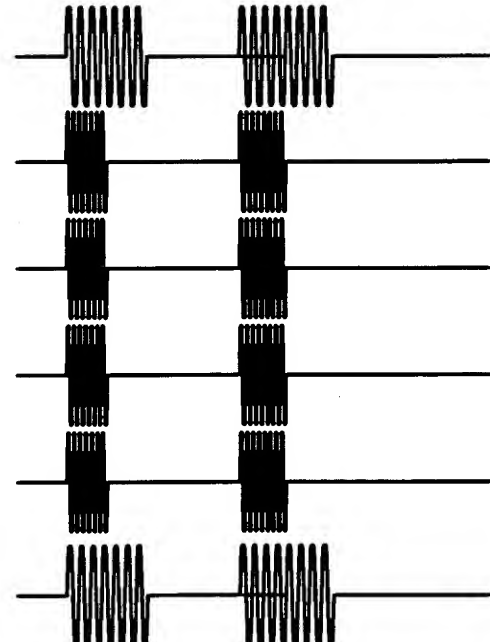
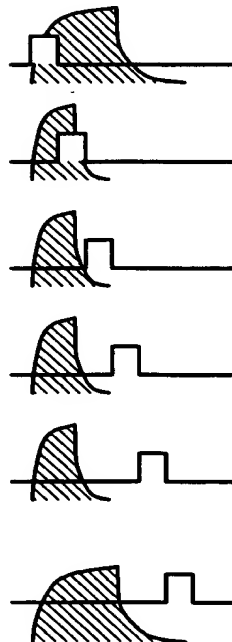
LAMP UNDER LCD

1st LAMP  
(FROM UPPER SIDE)2nd LAMP  
(FROM UPPER SIDE)3rd LAMP  
(FROM UPPER SIDE)4th LAMP  
(FROM UPPER SIDE)5th LAMP  
(FROM UPPER SIDE)6th LAMP  
(FROM UPPER SIDE)**FIG. 26B**

LOW BRIGHTNESS

WAVEFORM OF  
LAMP LIGHTING CURRENT

LAMP UNDER LCD

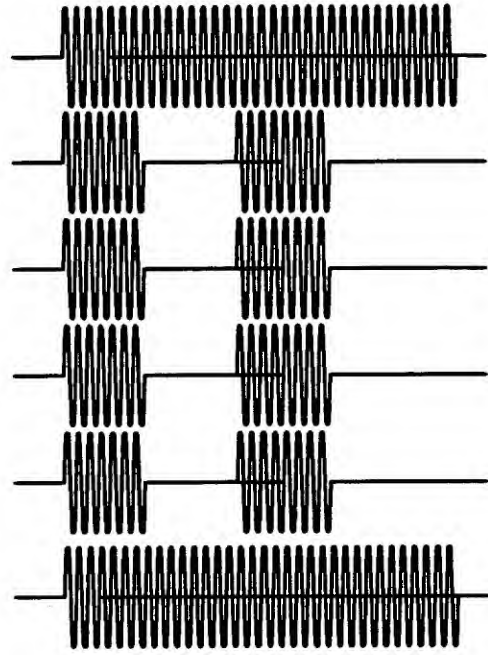
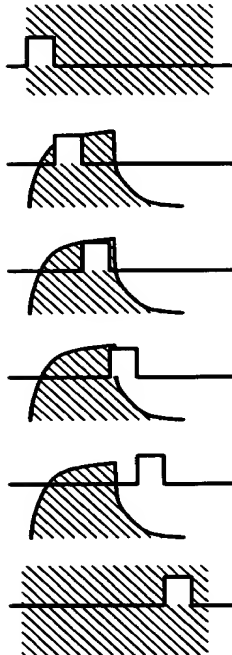
1st LAMP  
(FROM UPPER SIDE)2nd LAMP  
(FROM UPPER SIDE)3rd LAMP  
(FROM UPPER SIDE)4th LAMP  
(FROM UPPER SIDE)5th LAMP  
(FROM UPPER SIDE)6th LAMP  
(FROM UPPER SIDE)

**FIG. 27A**

HIGH BRIGHTNESS

WAVEFORM OF  
LAMP LIGHTING CURRENT

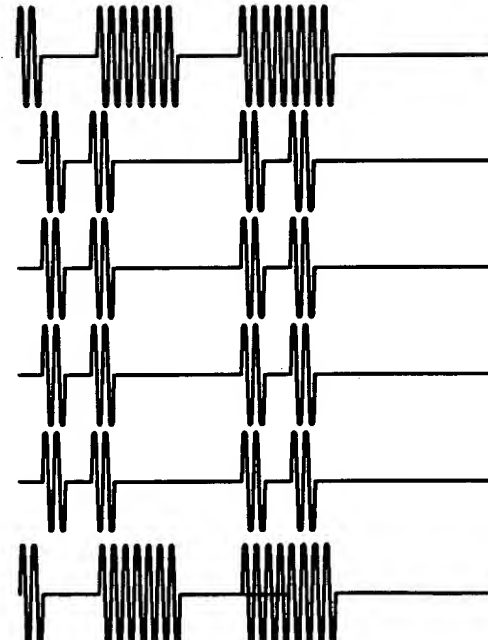
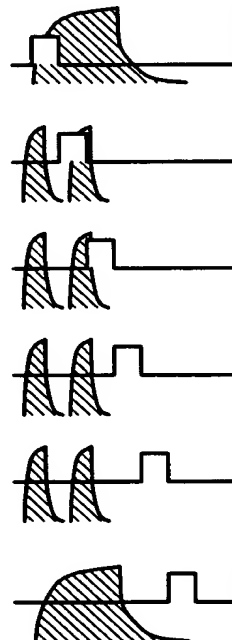
LAMP UNDER LCD

1st LAMP  
(FROM UPPER SIDE)2nd LAMP  
(FROM UPPER SIDE)3rd LAMP  
(FROM UPPER SIDE)4th LAMP  
(FROM UPPER SIDE)5th LAMP  
(FROM UPPER SIDE)6th LAMP  
(FROM UPPER SIDE)**FIG. 27B**

LOW BRIGHTNESS

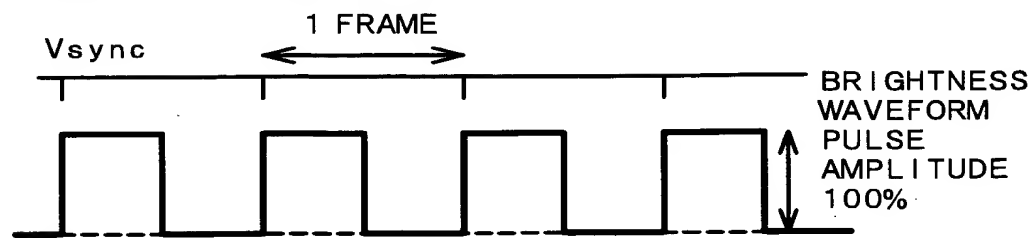
WAVEFORM OF  
LAMP LIGHTING CURRENT

LAMP UNDER LCD

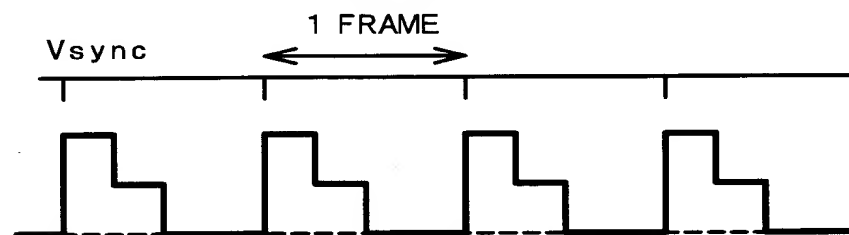
1st LAMP  
(FROM UPPER SIDE)2nd LAMP  
(FROM UPPER SIDE)3rd LAMP  
(FROM UPPER SIDE)4th LAMP  
(FROM UPPER SIDE)5th LAMP  
(FROM UPPER SIDE)6th LAMP  
(FROM UPPER SIDE)

**FIG. 28A**

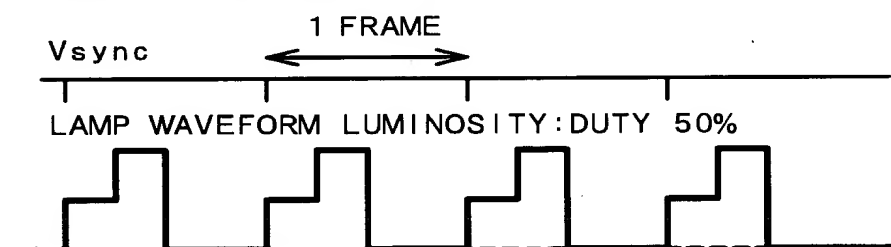
TWO BRIGHTNESS VALUE

**FIG. 28B**

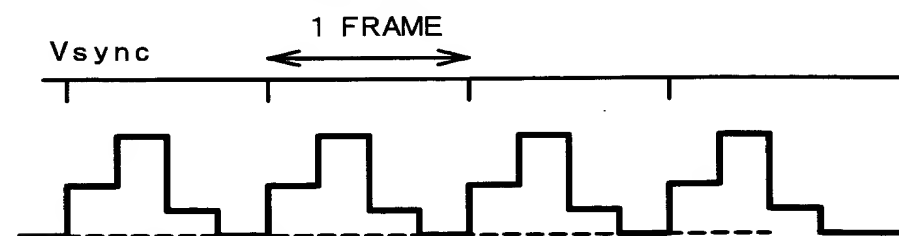
THREE BRIGHTNESS VALUE

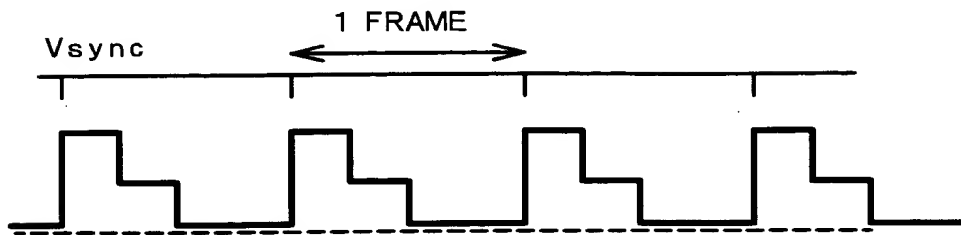
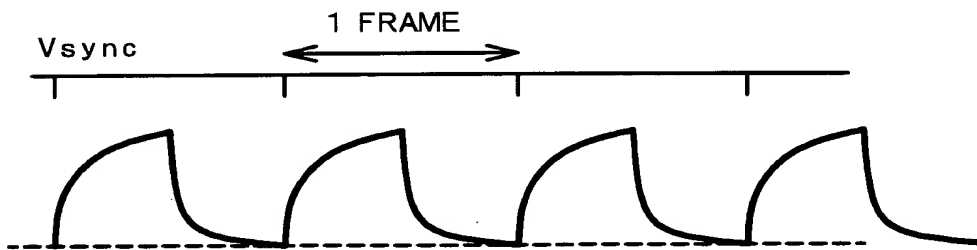
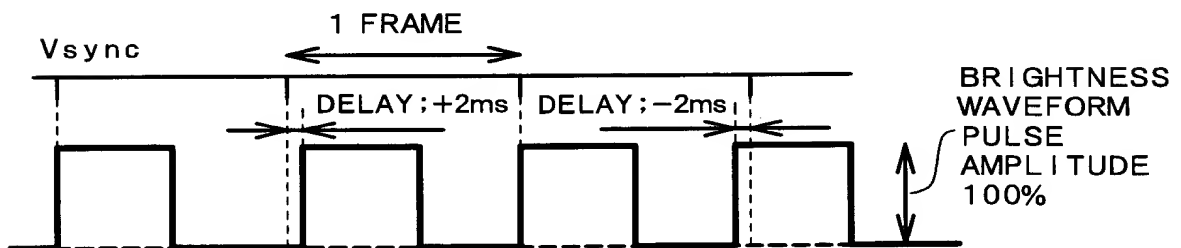
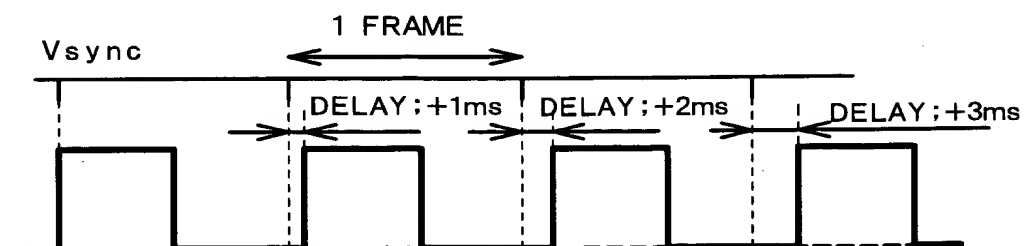
**FIG. 28C**

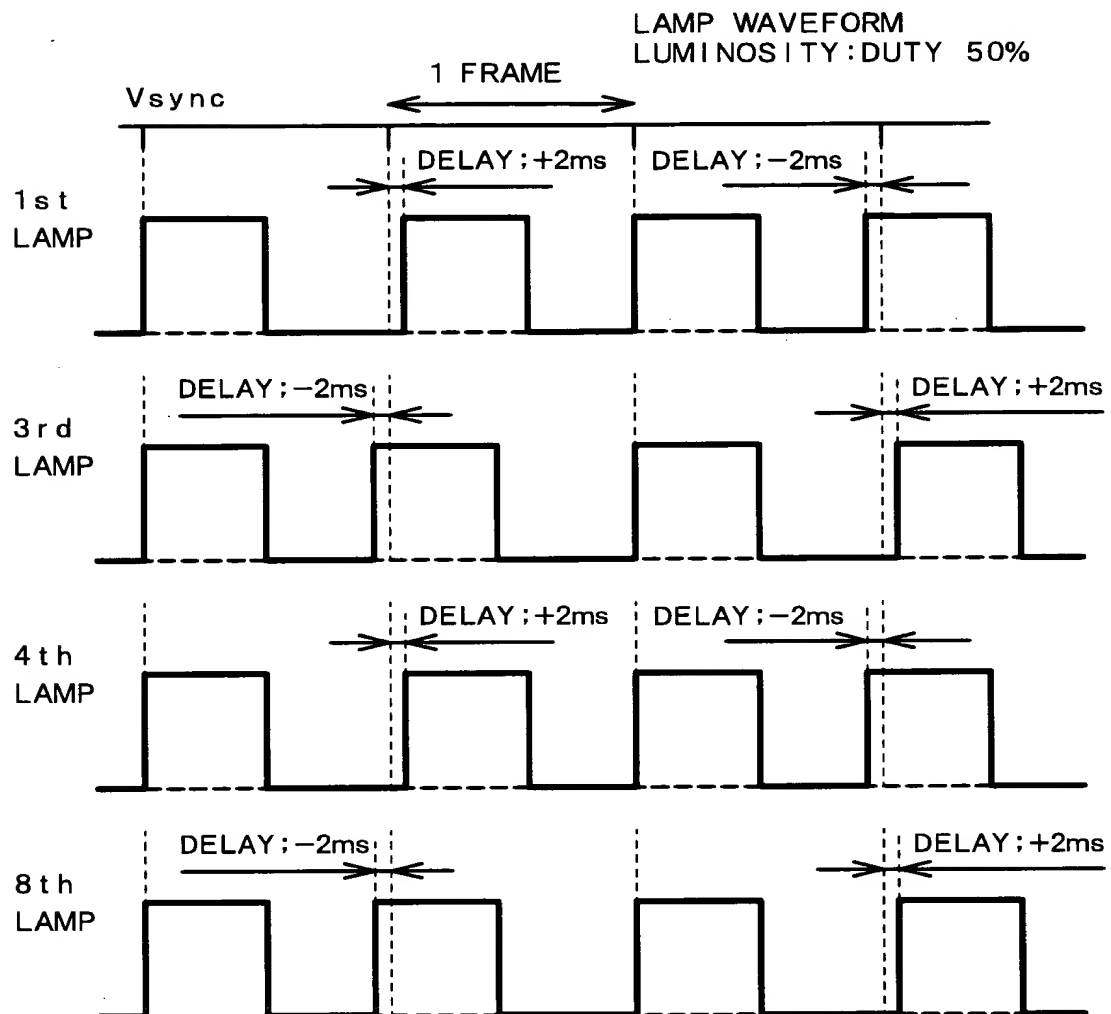
THREE BRIGHTNESS VALUE

**FIG. 28D**

FOUR BRIGHTNESS VALUE



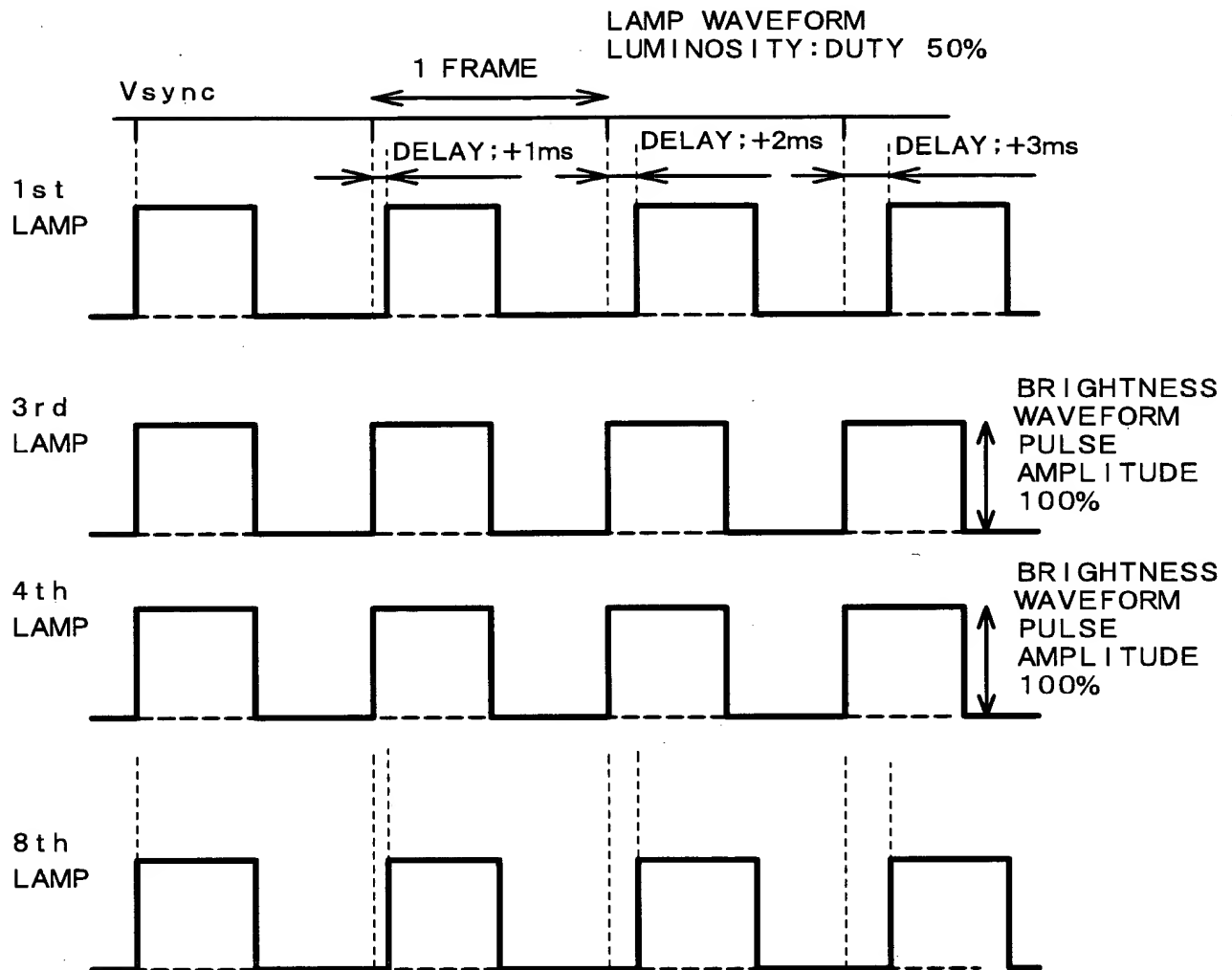
**FIG. 29**THREE BRIGHTNESS VALUE  
(WITHOUT 0 BRIGHTNESS PERIOD)**FIG. 30**BRIGHTNESS CHANGE  
ANALOGUE CONTROL**FIG. 31****FIG. 32**

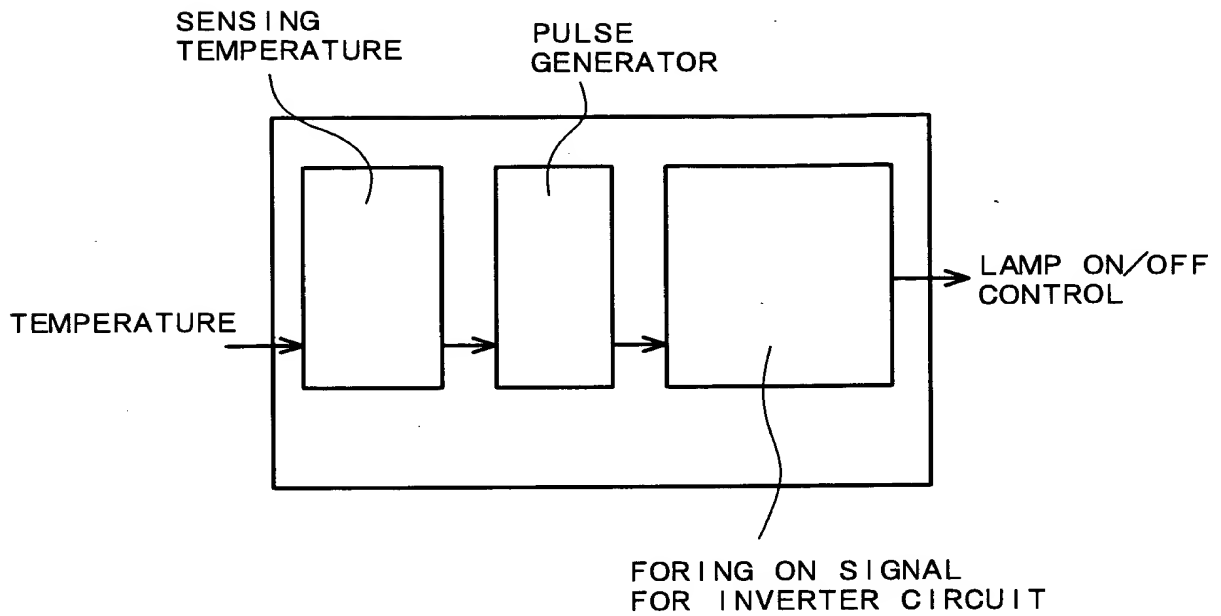
**FIG. 33**

09987595-11501



FIG. 34



**FIG. 35A****FIG. 35B**